

Abstract

A device is described for determining at least one parameter of a medium flowing in a line 3 in a main flow direction 18, 5 in particular the mass of intake air for an internal combustion engine. The device includes a part 6 that is capable of being introduced into the line 3 with a predetermined orientation relative to the main flow direction 18 in such a manner that a partial stream of the 10 medium flowing through the line flows through at least one measuring channel 40, in which a measuring element 9 is located, that is provided in the part. The measuring channel includes, between an inlet 41 and the measuring element 9, a bent section 42 for redirecting the partial stream of the 15 medium that entered the measuring channel through the inlet 41, the bent section transitioning into a further section 44 of the measuring channel having the measuring element, the measuring element being located in this further section. To improve the flow conditions, means 50 that project into the 20 measuring channel are located downstream from the inlet 41 and upstream from the measuring element 9, as viewed in the measuring channel flow direction a, the means directing the flow and counteracting a separation of the flow of the 25 partial stream of the medium from the channel walls of the measuring channel.